

Please amend Claims 1, 6 and 11 and add new Claims 19 to 22, to read as follows. A marked-up copy of Claims 1, 6 and 11, showing the changes made thereto, is attached. Note that all the claims currently pending in this application, including those not presently being amended, have been reproduced below for the Examiner's convenience.

1. (Twice Amended) An optical-element holding mechanism comprising:
- a first holding member¹⁰³ arranged to hold a first optical element^{L3};
 - a second holding member¹¹⁸ arranged to hold a second optical element^{L6};
 - a plurality of coupling members¹¹⁵ arranged to couple said first holding member and said second holding member, and to permit relative positions of said first holding member and said second holding member to be varied in the process of being coupled;
 - a plurality of urging members¹²⁰ respectively disposed between each of said plurality of coupling members¹⁴⁵ and said second holding member¹¹⁸, and arranged to urge and press said second holding member against said first holding member at least when said plurality of coupling members are in the process of coupling said first holding member and said second holding member through alignment of respective optical axes of the first optical element and the second optical element; and
 - a deformation restricting member¹¹⁹, having a substantially annular shape, disposed between said plurality of coupling members and said first holding member and arranged to restrict deformation of said first holding member while relative positions of said first holding member and said second holding member are in the process of being

not necessary
see page 28
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6.36
(See pg. 4)
See pg. 25, 26

varied, when said plurality of coupling members are in the process of coupling said first holding member and said second holding member.

2. (Amended) An optical-element holding mechanism according to claim 1, wherein each coupling member is a screw arranged to couple said first holding member and said second holding member by press contact.

3. (Amended) An optical-element holding mechanism according to claim 2, wherein each urging member is a deformable washer that generates an elastic force, and through which a shaft of said screw pierces.

6. (Twice Amended) An optical-element holding mechanism according to claim 1, wherein each urging member is disposed between a coupling member and said deformation restricting member.

7. (Amended) An optical-element holding mechanism according to claim 1, further comprising a friction preventing member disposed between each coupling member and said second holding member and arranged to prevent generation of a frictional force between said coupling member and said second holding member when said coupling member is in the process of coupling said first holding member and said second holding members.

8. (Amended) An optical-element holding mechanism according to claim 7, wherein movement of said friction preventing member within a plane of varying the relative positions of said first holding member and said second holding member is restricted.

9. (Amended) An optical-element holding mechanism according to claim 7, further comprising a deformation restricting member arranged to restrict deformation of said first holding member while the relative positions of said first holding member and said second holding member are in the process of being varied and when said plurality of coupling members are in the process of coupling said first holding member and said second holding member, wherein said friction preventing member serves also as said deformation restricting member.

10. (Amended) An optical-element holding mechanism according to claim 7, wherein each urging member is disposed between a coupling member and said friction preventing member.

11. (Twice Amended) An optical apparatus comprising:

an apparatus body; and

an optical-element holding mechanism including:

a first holding member arranged to hold a first optical element;

a second holding member arranged to hold a second optical element;

a plurality of coupling members arranged to couple said first holding member and said second holding member, and to permit relative positions of said first holding member and said second holding member to be varied in the process of being coupled;

a plurality of urging members respectively disposed between each of said plurality of coupling members and said second holding member, and arranged to urge and press said second holding member against said first holding member at least when said plurality of coupling members are in the process of coupling said first holding member and said second holding member through alignment of respective optical axes of the first optical element and the second optical element; and

a deformation restricting member, having a substantially annular shape, disposed between said plurality of coupling members and said first holding member and arranged to restrict deformation of said first holding member while relative positions of said first holding member and said second holding member are in the process of being varied, when said plurality of coupling members are in the process of coupling said first holding member and said second holding member.

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Same
as
claim 1

--19. (New) An optical element holding mechanism comprising:

a first holding member arranged to hold a first optical element;

a second holding member arranged to hold a second optical element;

a plurality of coupling members arranged to couple said first holding member and said second holding member, and to permit relative positions of said first

D2

6 holding member and said second holding member to be varied in the process of being coupled;

8 a plurality of urging members respectively disposed between each of said plurality of coupling members and said second holding member, and arranged to urge and
10 press said second holding member against said first holding member at least when said plurality of coupling members are in the process of coupling said first holding member and said second holding member through alignment of respective optical axes of the first optical element and the second optical element; and

14 a deformation restricting member, having a substantially annular shape,
15 disposed between said plurality of coupling members and said first holding member and arranged to restrict deformation of said first holding member while relative positions of said first holding member and said second holding member are in the process of being varied, when said plurality of coupling members are in the process of coupling said first holding member and said second holding member;

20 wherein said deformation restricting member includes a plurality of first
21 through hole portions for receiving one of said plurality of coupling members;

22 wherein said first holding member includes an extended portion extended in the direction of the optical axis of said first optical element, said extended portion including a plurality of abutting faces and a plurality of receiving portions for receiving the
25 plurality of coupling members; and

26 wherein said second holding member includes a plurality of flanges
28 extending in a direction perpendicular to the optical axis, each flange abutting against one

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D2

Saves r-1
claim 1

Depend
112

119(a-c)

109a

109b

109d

118a

28 of said plurality of abutting faces of said first holding member, each flange including a
29. plurality of second through hole portions for receiving said plurality of coupling members.

118b
push out

20. (New) An optical apparatus comprising:

an apparatus body; and

an optical-element holding mechanism including:

a first holding member arranged to hold a first optical element;

a second holding member arranged to hold a second optical element;

a plurality of coupling members arranged to couple said first holding member and said second holding member, and to permit relative positions of said first holding member and said second holding member to be varied in the process of being coupled;

a plurality of urging members respectively disposed between each of said plurality of coupling members and said second holding member, and arranged to urge and press said second holding member against said first holding member at least when said plurality of coupling members are in the process of coupling said first holding member and said second holding member through alignment of respective optical axes of the first optical element and the second optical element; and

a deformation restricting member, having a substantially annular shape, disposed between said plurality of coupling members and said first holding member and arranged to restrict deformation of said first holding member while relative positions of said first holding member and said second holding member are in the process of being

Save
as
claim 1

varied, when said plurality of coupling members are in the process of coupling said first holding member and said second holding member;

wherein said deformation restricting member includes a plurality of first through hole portions for receiving one of said plurality of coupling members;

wherein said first holding member includes an extended portion extended in the direction of the optical axis of said first optical element, said extended portion including a plurality of abutting faces and a plurality of receiving portions for receiving the plurality of coupling members; and

wherein said second holding member includes a plurality of flanges extending in a direction perpendicular to the optical axis, each flange abutting against one of said plurality of abutting faces of said first holding member, each flange including a plurality of second through hole portions for receiving said plurality of coupling members.

21. (New) An optical coupling mechanism, comprising:

a first holding member that holds a first optical element having a first optical axis;

a second holding member that holds a second optical element having a second optical axis;

a plurality of coupling members arranged to couple said first holding member and said second holding member at a position, selected within a range of relative movement between said first holding member and said second holding member, in which the first optical axis and the second optical axis are substantially aligned;

a plurality of urging members, respectively disposed between each of said plurality of coupling members and said second holding member, that urge and press said second holding member against said first holding member within the range of relative movement between said first holding member and said second holding member; and

a deformation restricting member, disposed between each of said plurality of coupling members and said first holding member, that restricts deformation of the first holding member within the range of relative movement between said first holding member and said second holding member;

wherein said deformation restricting member includes a plurality of first through hole portions for receiving one of said plurality of coupling members;

wherein said first holding member includes an extended portion extended in the direction of the optical axis of said first optical element, said extended portion including a plurality of abutting faces and a plurality of receiving portions for receiving the plurality of coupling members; and

wherein said second holding member includes a plurality of flanges extending in a direction perpendicular to the optical axis, each flange abutting against one of said plurality of abutting faces of said first holding member, each flange including a plurality of second through hole portions for receiving said plurality of coupling members.

22. (New) An optical apparatus comprising:

an apparatus body; and

an optical coupling mechanism, comprising:

Same as claim 1

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Nope

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a first holding member that holds a first optical element having a first optical axis;

a second holding member that holds a second optical element having a second optical axis;

a plurality of coupling members arranged to couple said first holding member and said second holding member at a position, selected within a range of relative movement between said first holding member and said second holding member, in which the first optical axis and the second optical axis are substantially aligned;

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D2*
a plurality of urging members, respectively disposed between each of said plurality of coupling members and said second holding member, that urge and press said second holding member against said first holding member within the range of relative movement between said first holding member and said second holding member; and

a deformation restricting member, disposed between each of said plurality of coupling members and said first holding member, that restricts deformation of the first holding member within the range of relative movement between said first holding member and said second holding member;

wherein said deformation restricting member includes a plurality of first through hole portions for receiving one of said plurality of coupling members;

wherein said first holding member includes an extended portion extended in the direction of the optical axis of said first optical element, said extended portion including a plurality of abutting faces and a plurality of receiving portions for receiving the plurality of coupling members; and

*same
as char 1*

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